- **Delivered luminosity and operating efficiency**
  - Delivered: 5.1pb^{-1}
  - Recorded: 3.8pb^{-1} (74%)
- **Data taking efficiency**
  - two "new" problems observed last week
    - bad on-line disk
    - trigger framework corruption
  - typical global run efficiency is 85%-90%
- **Number of events collected**
  - 9 mln events
- **Accelerator halo**
  - within specifications
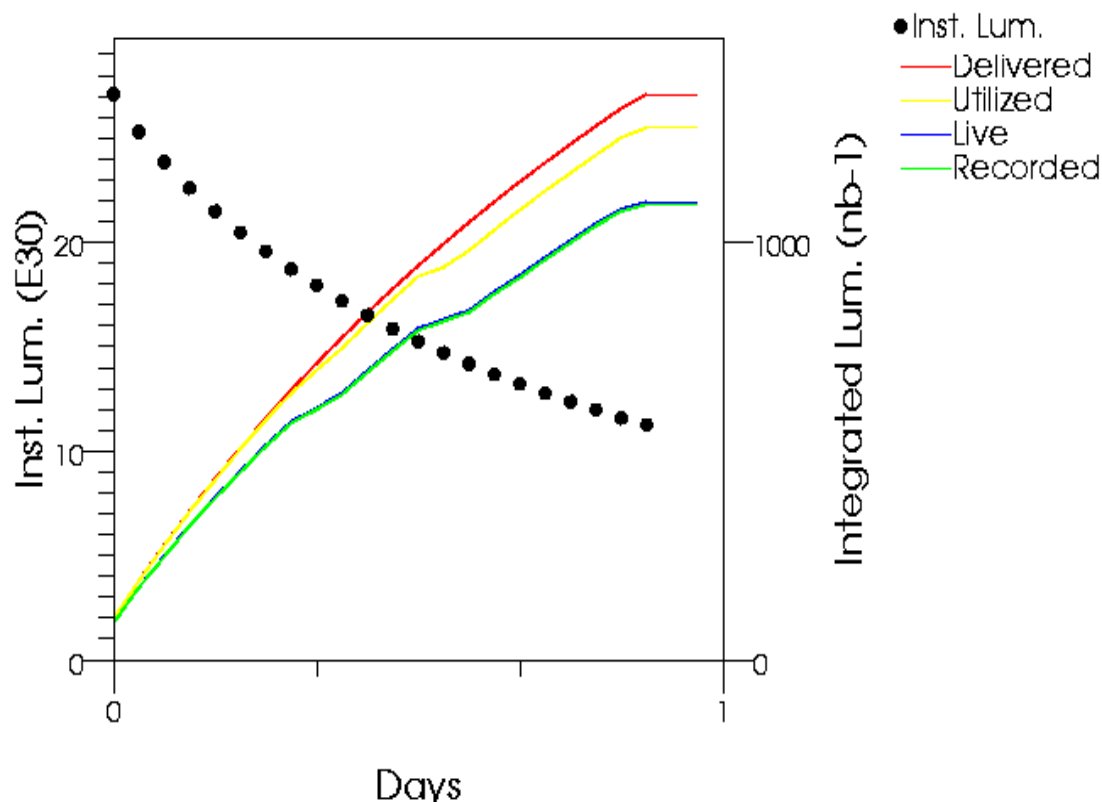
Saturday, December 7th
82% efficiency for the day and
over 1pb^{-1} collected
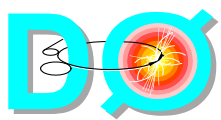
- Running physics trigger list 9.31 since last week
  - minor change vs 9.30
    - Level 2 trigger Cal upgrade

- Typical global run trigger rates
  - L1 trigger ~0.6kHz
  - L2 trigger ~250Hz
  - L3 trigger (to tape) ~50 Hz

- Currently most serious issues limiting our trigger rates
  - muon readout
    - starts PDT problem(s) are not understood yet
  - calorimeter readout
    - problem is fixed
- Two issues affected our downtime last week (~3 hours of lost beam)
  - hardware failure of on-line disk
    - was very difficult to diagnose
  - trigger framework crate corruption
    - cure is known
   - experts are working on the problem
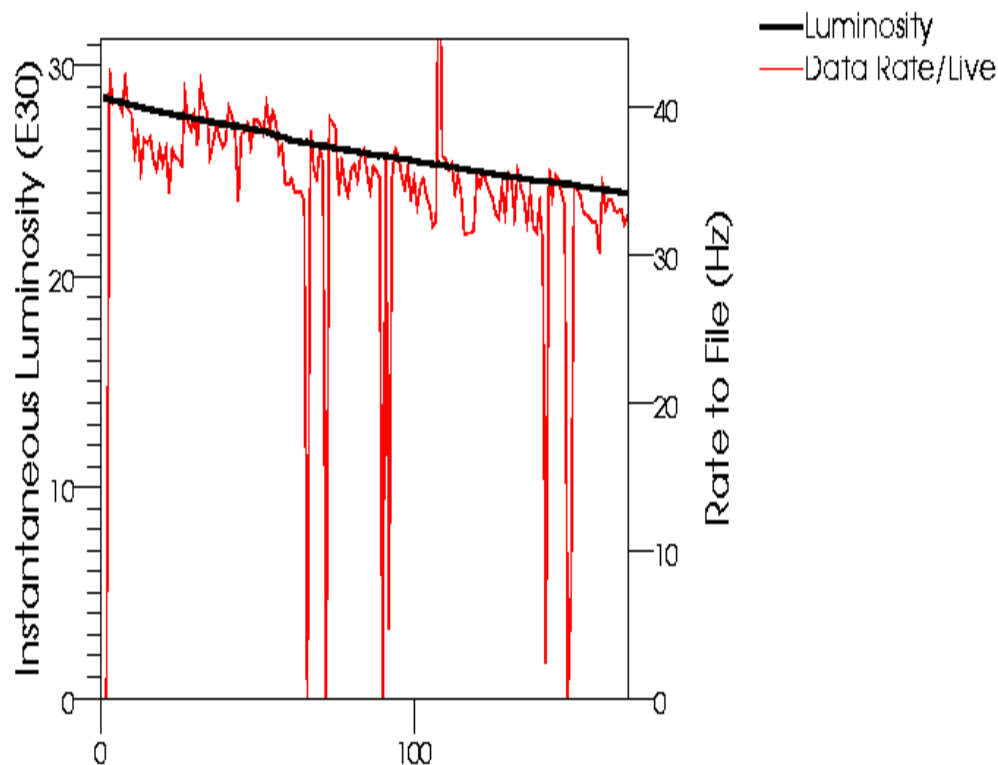
Luminosity Blocks into Run 168964

Best Run in the last 4 weeks
91% efficiency
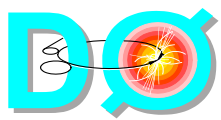
January Shutdown

- In process of developing detailed day by day plan for the January shutdown

- D0 detector will be fully opened to provide experts with opportunity (first time in more then a year) to access central region of the detector
  - minor silicon repairs
  - cal/silicon noises studies
  - inter-cryostat detector repairs
  - silicon TLDs retrieval
  - purge gas to luminosity counters
  - fibers mapping for forward pre-shower detector
  - etc.

- Muon system opening is required to fix 2 broken wires in mini-drift tube octants

- Multiple other jobs including installations, commissioning, and minor repairs
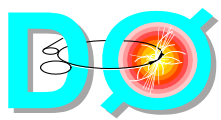
Summary

- D0 experiment is progressing well with physics data taking
  - trigger list 9.31 is running on-line
  - 9 mln events collected last week
  - 17 mln events processed on the farms - processing backlog of events rapidly

- D0 weekly data taking efficiency is steady around 75%
  - no major software/hardware problems
  - running in the "stability" region of the L1/L2 rates
  - in process of attacking (currently) most serious issues
    - PDT front-end code crashes
  - downtime is on the level of ~10% for the week

- While finishing data collection for winter conferences
  - progressing with special runs needed for efficient work during January shutdown
  - developing detailed work plan for January shutdown
    - all critical jobs could be accomplished in 3.5 weeks
    - minimal, but critical for shutdown D0 progress survey is required